



DATE: 04/03/2003

TIME: 14:26:41

Output Set: N:\CRF4\04032003\J009792A.raw

ENTERED

## RAW SEQUENCE LISTING

PATENT APPLICATION: US/10/009,792A

DATE: 04/03/2003

TIME: 14:26:35

Input Set : A:\HYLEE60.001.TXT

Output Set : N:\CRF4\04032003\J009792A.raw

68 <223> OTHER INFORMATION: Primer  
70 <400> SEQUENCE: 4  
71 tctctgggggt ggcacagctt gtaggtggca cacacgttct cctggagcgc 50  
73 <210> SEQ ID NO: 5  
74 <211> LENGTH: 50  
75 <212> TYPE: DNA  
76 <213> ORGANISM: Artificial Sequence  
78 <220> FEATURE:  
79 <223> OTHER INFORMATION: Primer  
81 <400> SEQUENCE: 5  
82 gctgtgccac cccgaggagc tgggtgetgt cygacactct ctgggcctcc 50  
84 <210> SEQ ID NO: 6  
85 <211> LENGTH: 50  
86 <212> TYPE: DNA  
87 <213> ORGANISM: Artificial Sequence  
89 <220> FEATURE:  
90 <223> OTHER INFORMATION: Primer  
92 <400> SEQUENCE: 6  
93 ctggtctggg cagctgtctc ggggagccca ggggatgcc agagagtgtc 50  
95 <210> SEQ ID NO: 7  
96 <211> LENGTH: 48  
97 <212> TYPE: DNA  
98 <213> ORGANISM: Artificial Sequence  
100 <220> FEATURE:  
101 <223> OTHER INFORMATION: Primer  
103 <400> SEQUENCE: 7  
104 agcagctgcc ccagccagc cctgcagctg gcaggctgtc tgagccaa 48  
106 <210> SEQ ID NO: 8  
107 <211> LENGTH: 32  
108 <212> TYPE: DNA  
109 <213> ORGANISM: Artificial Sequence  
111 <220> FEATURE:  
112 <223> OTHER INFORMATION: Primer  
114 <400> SEQUENCE: 8  
115 gaattcatat gacccccctg ggccctgcc gc 32  
117 <210> SEQ ID NO: 9  
118 <211> LENGTH: 32  
119 <212> TYPE: DNA  
120 <213> ORGANISM: Artificial Sequence  
122 <220> FEATURE:  
123 <223> OTHER INFORMATION: Primer  
125 <400> SEQUENCE: 9  
126 gaattcatat gactccgtta ggtccagcca gc 32  
128 <210> SEQ ID NO: 10  
129 <211> LENGTH: 33  
130 <212> TYPE: DNA  
131 <213> ORGANISM: Artificial Sequence  
133 <220> FEATURE:  
134 <223> OTHER INFORMATION: Primer

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136 <400> SEQUENCE: 10
137 qqaattcaca tdtttaaggt taaaaagaaa ttt
139 <210> SEQ ID NO: 11
140 <211> LENGTH: 29
141 <212> TYPE: DNA
142 <213> ORGANISM: Artificial Sequence
144 <220> FEATURE:
145 <223> OTHER INFORMATION: Primer
147 <400> SEQUENCE: 11
148 ggetggacct aacggaattg cagaggcgg
150 <210> SEQ ID NO: 12
151 <211> LENGTH: 33
152 <212> TYPE: DNA
153 <213> ORGANISM: Artificial Sequence
155 <220> FEATURE:
156 <223> OTHER INFORMATION: Primer
158 <400> SEQUENCE: 12
159 gcaaccgcct ctgcaactcc gttagggtcca gcc
161 <210> SEQ ID NO: 13
162 <211> LENGTH: 33
163 <212> TYPE: DNA
164 <213> ORGANISM: Artificial Sequence
166 <220> FEATURE:
167 <223> OTHER INFORMATION: Primer
169 <400> SEQUENCE: 13
170 gcgaattcct taaagccacg ttgtgtcctc aaa
172 <210> SEQ ID NO: 14
173 <211> LENGTH: 36
174 <212> TYPE: DNA
175 <213> ORGANISM: Artificial Sequence
177 <220> FEATURE:
178 <223> OTHER INFORMATION: Primer
180 <400> SEQUENCE: 14
181 gcgaattcct taaattagaa aaactcatcg agcatc
183 <210> SEQ ID NO: 15
184 <211> LENGTH: 39
185 <212> TYPE: DNA
186 <213> ORGANISM: Artificial Sequence
188 <220> FEATURE:
189 <223> OTHER INFORMATION: Primer
191 <400> SEQUENCE: 15
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194 <210> SEQ ID NO: 16
195 <211> LENGTH: 41
196 <212> TYPE: DNA
197 <213> ORGANISM: Artificial Sequence
199 <220> FEATURE:
200 <223> OTHER INFORMATION: Primer
202 <400> SEQUENCE: 16
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205 <210> SEQ ID NO: 17
206 <211> LENGTH: 507
207 <212> TYPE: DNA
208 <213> ORGANISM: Homo sapiens
210 <400> SEQUENCE: 17
211 atggetggac ctgccaccca gagccccatg aagetgatgg cctgcagct getgctgtgg 60
212 agtgcactct ggacagtga ggaagccacc cccctgggcc ctgccagctc cctgccccag 120
213 agcttccctgc tcaagtgtt agagcaagtg aggaagatcc agggcgatgg cgcagcgctc 180
214 caggagaagc tggcaggtg ctfgagccaa ctccatagcg gcttttctt ctaccagggg 240
215 ctectgcagg ccttgaagg gatctcccc gagttgggtc ccaccttga cacactgcag 300
216 ctggacgtcg ccgactttgc caccaccatc tggcagcaga tggagaact gggaatggcc 360
217 cctgcccctgc agccaccca gggcgccatg ccggccttcg cctctgttt ccagcgccgg 420
218 gcaggagggg tctagtgtc ctcccattc cagagcttc tggaggtgtc gtaccgcgtt 480
219 ctacgcacc ttgccagcc ctaataa 507
221 <210> SEQ ID NO: 18
222 <211> LENGTH: 615
223 <212> TYPE: DNA
224 <213> ORGANISM: Homo sapiens
226 <400> SEQUENCE: 18
227 atggetggac ctgccaccca gagccccatg aagetgatgg cctgcagct getgctgtgg 60
228 agtgcactct ggacagtga ggaagccacc cccctgggcc ctgccagctc cctgccccag 120
229 agcttccctgc tcaagtgtt agagcaagtg aggaagatcc agggcgatgg cgcagcgctc 180
230 caggagaagc tgtgtgccac ctacaagctg tgcaccccg aggagctggt getgctcgga 240
231 cactctctgg gcateccctg ggctcccctg agcagctgcc ccagccaggc cctgcagctg 300
232 gcaggtctgt tgagccaact ccatagcggc cttttctct accagggggt cctgcaggcc 360
233 ctggaagggg tctccccga gttgggtccc accttggaca cactgcagct ggacgtcgcc 420
234 gactttgcca ccaccatctg gcagcagatg gaaqaactgg gaatggccc tgcctgcag 480
235 cccaccaggg gtgccatgcc ggccttcgcc tctgctttcc agcgcggggc aggaggggtc 540
236 ctagtgtcct cccatctgca gagcttctct gaggtgtcgt accgcgttct accccacctt 600
237 gcccagccct aataa 615
239 <210> SEQ ID NO: 19
240 <211> LENGTH: 174
241 <212> TYPE: PRT
242 <213> ORGANISM: Homo sapiens
244 <400> SEQUENCE: 19
245 Thr Pro Leu Gly Pro Ala Ser Ser Leu Pro Gln Ser Phe Leu Leu Lys
246 1 5 10 15
247 Cys Leu Glu Gln Val Arg Lys Ile Gln Gly Asp Gly Ala Ala Leu Gln
248 20 25 30
249 Glu Lys Leu Cys Ala Thr Tyr Lys Leu Cys His Pro Glu Glu Leu Val
250 35 40 45
251 Leu Leu Gly His Ser Leu Gly Ile Pro Trp Ala Pro Leu Ser Ser Cys
252 50 55 60
253 Pro Ser Gln Ala Leu Gln Leu Ala Gly Cys Leu Ser Gln Leu His Ser
254 65 70 75 80
255 Gly Leu Phe Leu Tyr Gln Gly Leu Leu Gln Ala Leu Glu Gly Ile Ser
256 85 90 95
257 Pro Glu Leu Gly Pro Thr Leu Asp Thr Leu Gln Leu Asp Val Ala Asp
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259      100      105      110
259 Phe Ala Thr Thr Ile Trp Gln Gln Met Glu Glu Leu Gly Met Ala Pro
260      115      120      125
261 Ala Leu Gln Pro Thr Gln Gly Ala Met Pro Ala Phe Ala Ser Ala Phe
262      130      135      140
263 Gln Arg Arg Ala Gly Gly Val Leu Val Ala Ser His Leu Gln Ser Phe
264 145      150      155      160
265 Leu Glu Val Ser Tyr Arg Val Leu Arg His Leu Ala Gln Pro
266      165      170
269 <210> SEQ ID NO: 20
270 <211> LENGTH: 531
271 <212> TYPE: DNA
272 <213> ORGANISM: Homo sapiens
274 <400> SEQUENCE: 20
275 atgaccccc tggccctgc cagctccctg ccccagagct tctgtctcaa gtgcttagag 60
276 caagtgagga agatccaggg ccatggcgca gcctccagg agaagctgtg tgcacctac 120
277 aagetgtgcc accccgagga gctgggtgtg ctgggacact ctctgggcat cccctgggt 180
278 cccctgagca gctgccccag ccaggccctg cagctggcag gctgcttgag ccaactccat 240
279 agcggccttt tctctacca ggggtcctg caggccctgg aagggatctc ccccgagttg 300
280 ggtccacct tggacacact gcagctggac gtgcgcgact ttgccaccac catctggcag 360
281 cagatggaag aactgggaat ggcctctgcc ctgcagccca ccagggtgc catgccggcc 420
282 ttgcctctg cttccagcg ccgggcagga ggggtcctag ttgcctccca tctgcagagc 480
283 tctctggagg tgcgtaccg cgttctacgc cacttgccc agccctaata a 531
285 <210> SEQ ID NO: 21
286 <211> LENGTH: 175
287 <212> TYPE: PRT
288 <213> ORGANISM: Homo sapiens
290 <400> SEQUENCE: 21
291 Met Thr Pro Leu Gly Pro Ala Ser Ser Leu Pro Gln Ser Phe Leu Leu
292 1 5 10 15
293 Lys Cys Leu Glu Val Arg Lys Ile Gln Gly Asp Gly Ala Ala Leu
294 20 25 30
295 Gln Glu Lys Leu Cys Ala Thr Tyr Lys Leu Cys His Pro Glu Glu Leu
296 35 40 45
297 Val Leu Leu Gly His Ser Leu Gly Ile Pro Trp Ala Pro Leu Ser Ser
298 50 55 60
299 Cys Pro Ser Gln Ala Leu Gln Leu Ala Gly Cys Leu Ser Gln Leu His
300 65 70 75 80
301 Ser Gly Leu Phe Leu Tyr Gln Gly Leu Leu Gln Ala Leu Glu Gly Ile
302 85 90 95
303 Ser Pro Glu Leu Gly Pro Thr Leu Asp Thr Leu Gln Leu Asp Val Ala
304 100 105 110
305 Asp Phe Ala Thr Thr Ile Trp Gln Gln Met Glu Glu Leu Gly Met Ala
306 115 120 125
307 Pro Ala Leu Gln Pro Thr Gln Gly Ala Met Pro Ala Phe Ala Ser Ala
308 130 135 140
309 Phe Gln Arg Arg Ala Gly Gly Val Leu Val Ala Ser His Leu Gln Ser
310 145 150 155 160
311 Phe Leu Glu Val Ser Tyr Arg Val Leu Arg His Leu Ala Gln Pro
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**VERIFICATION SUMMARY**

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L:14 M:271 C: Current Filing Date differs, Replaced Current Filing Date